Index of Claims



Application No.

09/593,645 Examiner

Mark T Henderson

Applicant(s)

MANICO ET AL.

Art Unit

3722

|   | √ | Rejected |
|---|---|----------|
|   | = | Allowed  |
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|   |   | Da       |

| _ | (Through numeral)<br>Cancelled |
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| N | Non-Elected  |
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| ı | Interference |

| A | Appeal   |
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| 0 | Objected |

| Claim Date |          |               | Claim Date    |              |         |         |              |          |           |          | 1(     | CI       | aim      | Date               |              |         |          |   |   |      |       |            |          |        |          |              |                 |                   |               |
|------------|----------|---------------|---------------|--------------|---------|---------|--------------|----------|-----------|----------|--------|----------|----------|--------------------|--------------|---------|----------|---|---|------|-------|------------|----------|--------|----------|--------------|-----------------|-------------------|---------------|
|            |          |               |               |              |         |         | П            | H        |           |          |        |          |          |                    |              |         | 1 1      |   |   | T    | Т     | П          |          | П      | $\neg$   | $\exists$    |                 |                   |               |
| Final      | Original | 10/28/04      | į             |              |         |         |              |          |           | 10       |        | Original |          |                    |              |         |          |   |   |      | Final | Original   |          |        |          |              |                 |                   |               |
|            | 1        | 1             | +             | ╁            |         | ╫       | +            |          | H         | $\vdash$ | -      | 51       | $\dashv$ | +                  | ╁            | ╁       | Н        | $\dashv$  | +-  |      |       | 101        | -        | +      | t        |              | $\vdash$        | $\dashv$          | +             |
|            | 2        | Ì             | $\rightarrow$ | +            | +       | +       | <del> </del> | H        | Н         | $\vdash$ |        | 52       | 7        | +                  | $\top$       | +       | 1        | $\dashv$  | $\top$  | 1111 |       | 102        | $\top$   | 1-     | T        |              | П               | $\neg$            | $\neg$        |
|            | 3        | 7             |               | +            | $^{+}$  | +       | t            | $\vdash$ |           | $\vdash$ |        | 53       | _        | 1                  | +            | $\top$  | П        | _   | 十   | 1 1  |       | 103        |          | $\top$ |          | $\vdash$     | П               | $\dashv$          | 1             |
|            | 4        | 7             |               | 十            | +       | +       | T            | $\vdash$ |           |          |        | 54       | $\dashv$ | 7                  | $\top$       | T       | П        | 7   | $\neg$  | 1 1  |       | 104        |          | 1      |          | Г            |                 | $\Box$            | $\Box$        |
|            | 5        | V             | $\neg$        | +            | $\top$  | $\top$  | T            | T        | $\neg$    |          |        | 55       | $\dashv$ | 7                  |              |         | П        |   | $\neg$  | 1    |       | 105        |          | Т      |          |              |                 | $\Box$            |               |
|            | 6        | 1             | -1-           | 1            | 1       | T       |              | П        |           |          | $\neg$ | 56       | $\neg$   | Т                  |              |         | П        |   |   |      |       | 106        |          |        |          |              |                 | $\Box$            |               |
|            | 7        | 7             |               | 1            | Т       | T       |              | П        |           |          |        | 57       |          |                    |              |         | П        |   |   |      |       | 107        |          | ┸      |          |              |                 | $\Box$            | 丄             |
|            | 8        | 7             |               | Τ            |         |         |              |          |           |          |        | 58       |          |                    |              |         |          |   |   |      |       | 108        |          |        |          |              | Ш               | ┙                 |               |
|            | 9        | 7             |               |              |         |         | 匚            |          |           |          |        | 59       |          | $\perp$            | 1            | $\perp$ | Ш        |   | $\perp$   |      |       | 109        | $\perp$  | _      |          | ┖            | Ш               | _                 | _             |
|            | 10       | •             |               |              |         |         | L            |          |           |          |        | 60       | $\perp$  | _                  | $\perp$      | $\perp$ | Ш        |   |   |      |       | 110        | $\perp$  | _      |          | $oxed{oxed}$ |                 | _                 | _             |
|            | 11       | ٠             |               | ⊥            | $\perp$ | ┖       | <u> </u>     | Ш        | Ш         | _        |        | 61       | _        | _                  | 1            | _       | Ш        |   | _   |      |       | 111        | $\perp$  | _      |          | _            |                 | _                 | _             |
|            | 12       |               | $\perp$       | $\perp$      | $\perp$ | $\perp$ | ┺            | $\perp$  | Ш         | L        |        | 62       | 4        | 4                  | $\perp$      | $\perp$ | ш        | 4   |   |      |       | 112        | +        | +      | ₩        | $\vdash$     | Н               | 4                 | +             |
| $\vdash$   | 13       | 1             | 4             | 4            | ┸       | ┸       | 1            | $\vdash$ | L.        | <u>_</u> |        | 63       | 4        |                    | -            | +       | $\sqcup$ | 1   | 4-  | 4    |       | 113        | -        | +      | ₩        | $\vdash$     | $\vdash \vdash$ | -+                | +             |
|            | 14       | 1             | $\perp$       | 1            | _       | ┸       | ╄            | Ļ        | Щ         | <u> </u> |        | 64       | _        | 4                  | _            | ╀       | Н        | $\dashv$  |   |      |       | 114        | _        | ┺      | -        | Н            |                 | $\dashv$          |               |
| $\vdash$   | 15       | Н             | $\perp$       | 1            | 4-      | 4_      | +            | $\vdash$ | Ш         | -        |        | 65       | 4        | +                  | 4            | 4-      | $\vdash$ | 4   | +   | 4    |       | 115        | $\vdash$ | ╁-     | ₩        |              | $\vdash \vdash$ | $\dashv$          |               |
|            | 16       | ш             | 1             | 4            | _ _     | $\bot$  | $\perp$      | $\vdash$ | -         | -        |        | 66       | 4        | 4                  | 4-           | ╨       | Н        | +   | +   | -    |       | 116        | $\perp$  |        | ├        |              | Н               | $\dashv$          |               |
|            | 17       | -             | 4             | 4.           | - -     | +       | ╀            | $\vdash$ | $\sqcup$  | -        |        | 67       | 4        | 4                  | 4-           | ╀       | Н        | +   | _   | 4    |       | 117        | +        |        | ┢        |              | H               | $\dashv$          |               |
|            | 18       | Ŀ             | 4             | +            | 4       | +       | ╄            | $\vdash$ | Ш.        | -        |        | 68       | 4        | +                  | +            | ╀       | ╌        | +   | -   | -    |       | 118        | +        | ╄      | ├        | $\vdash$     | $\vdash$        | $\dashv$          | +             |
| -          | 19       | Ŀ             | _             | +            | ╀       | +       | +            | $\vdash$ | Н:        | -        |        | 69       | +        | +                  | +            |         | Н        | +   | +   | -    |       | 119        | +        | +-     | <b>├</b> | Н            | $\vdash$        | $\dashv$          |               |
|            | 20       | $\vdash$      |               | - -          | +       | +       | ╀            | ┡        |           | -        |        | 70<br>71 | $\dashv$ | +                  |              | +       | Н        | +   | +   | -    |       | 120<br>121 | +        | ╂      | -        | $\vdash$     | $\vdash$        | $\dashv$          |               |
| <u></u>    | 21       |               | +             | ╀            | +       | +       | ╀            | -        |           | <u> </u> |        | 71<br>72 | -        |                    | +            | +       | Н        | +   |   | -    |       | 122        |          | +-     | ┢        | $\vdash$     | $\vdash$        | $\dashv$          |               |
|            | 22       | $\overline{}$ | +             | +            | +       | ┿       | ╁            | $\vdash$ | -         | $\vdash$ |        |          | -        | +                  | +            | +       | ⊢        |   | +   | -    |       | 123        |          | +      | $\vdash$ | $\vdash$     | $\vdash$        | -                 | +             |
|            | 23<br>24 | -             | -             | +-           | ╬       | +       | +            | $\vdash$ | H         | ⊩        |        | 73<br>74 | +        | +                  | +            | ╫       | ╌┼       | +   | +   | -    |       | 124        | +        | +      | $\vdash$ | $\vdash$     |                 | ↤                 | +             |
|            | 25       | ÷             | +             | ╁            |         | +       | +            | $\vdash$ | -8        | $\vdash$ |        | 75       | $\dashv$ | +                  | +            | +       | ┰        | -   | +   | 1 1  |       | 125        | +        | +      | Н        | H            | $\vdash$        | +                 | +             |
|            | 26       | ÷             | +             | ┰            | ╁       | +       | +            | $\vdash$ | H         | ⊩        |        | 76       | $\dashv$ | +                  | +            | +       | $\vdash$ | +   | +   | 1    |       | 126        | $\vdash$ | +      | Н        |              | $\vdash$        | ~+                | +             |
|            | 27       | ·             | +             | +            | ╁       | +-      | ╁            | $\vdash$ | H         | $\vdash$ |        | 77       | ┪        | +                  | +            | +       | Н        | -+  | +   | 1001 |       | 127        | +        | +      | $\vdash$ | H            | $\vdash$        |                   | +             |
| $\vdash$   | 28       | ÷             | +             | +            | +       | +       | +            | -        | H         | $\vdash$ |        | 78       | $\dashv$ | +                  | +            | +       | Н        | $\dashv$  | +-  | 1 1  |       | 128        | $\vdash$ | +-     | H        | H            | Н               | ┪                 | 十             |
|            | 29       | 7             | +             | +            | +       | +       | +            | $\vdash$ | -         | ⊩        |        | 79       | $\dashv$ | ┰                  |              | +       | Н        | $\dashv$  | +   | 1 1  |       | 129        |          | +-     | 1-       | 1            | Н               | 寸                 | 十             |
|            | 30       | 7             | -             | +            | +       | +       | +            | $\vdash$ | H         | $\vdash$ |        | 80       | +        | +                  | ╅            | +-      | Н        | $\dashv$  | 1   | 1 1  |       | 130        | +        | +      |          | -            | Н               | ヿ                 | $\top$        |
|            | 31       | 1             |               | +            | ╈       | +       | t            | Н        | H         | -        |        | 81       | 7        | +                  | ╅            | ┰       | $\vdash$ | $\neg$  | $\top$  | 1001 | _     | 131        |          | 1      |          | Ħ            | 1               | ┪                 | $\top$        |
|            | 32       | 7             |               | +            | +       | +       | +            | $\vdash$ | Н         | -        |        | 82       | $\dashv$ | $^{+}$             | +            | +       | $\vdash$ | $\top$  | $\top$  | 1 1  |       | 132        |          | $\top$ | T        | П            | $\vdash$        | $\dashv$          | $\neg$        |
|            | 33       | 1             | $\neg \vdash$ | $^{\dagger}$ | +       | T       | $\top$       | $\Box$   |           | -        |        | 83       | 寸        | +                  | 十            | 1       | T        | 十   | $\top$  | 1 1  |       | 133        |          | $\top$ | Г        | П            | $\Box$          | ヿ                 |               |
|            | 34       | V             | $\top$        | Ť            | $\top$  | T       | 1            | $\vdash$ |           | Г        |        | 84       | 寸        | ✝                  | 1            | $\top$  | П        | 1   | 1   | 1    |       | 134        |          | 1_     |          |              | □               | $\Box$            |               |
|            | 35       | -             | $\neg$        | T            | 1       | 1       | $\top$       | П        |           | Г        |        | 85       |          | ┰                  | 丁            | Τ       | П        | Ţ   |   |      |       | 135        |          | 1      |          | L            |                 | $\Box$            | ightharpoonup |
|            | 36       | -             | T             | 1            | T       | T       |              |          |           |          |        | 86       | J        |                    | I            | I       | $\Box$   |   |   |      |       | 136        |          | L      |          |              |                 | $\supset$         |               |
|            | 37       | •             |               | Ι            |         |         |              |          |           | Г        |        | 87       |          |                    | Ι            |         |          | $\Box$  | $\perp$   |      |       | 137        |          | Γ      | Г        |              |                 |                   |               |
|            | 38       | ·             | $\Box$        | Ι            | I       |         | Г            |          |           | Г        |        | 88       |          |                    | $\mathbf{I}$ | L       |          | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ |   |      |       | 138        |          | $\Box$ |          |              |                 |                   |               |
|            | 39       | •             |               | Ι            |         |         |              |          |           | E        |        | 89       |          | $\Box$             | Ι            |         | П        | I   | I.  |      |       | 139        |          |        |          |              |                 |                   | $\perp$       |
|            | 40       | •             |               | Ι            |         |         |              |          |           |          |        | 90       |          | $\Box$             | m I          |         | Ш        | I   |   |      |       | 140        |          |        | L        | $\Box$       | Ш               | $oldsymbol{\bot}$ |               |
|            | 41       | -             |               | Ι            | Ι       | L       |              |          |           |          |        | 91       |          |                    |              |         | П        | I   | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ |      |       | 141        |          | L      | L        |              | Ш               | _[                | _             |
|            | 42       | -             |               | Ι            | I       | I       |              |          |           | Ē        |        | 92       |          | $oldsymbol{\perp}$ | $\perp$      | 厂       | Ц        | $\perp$   |   |      |       | 142        |          |        | L        | Ш            | Ш               | _[                | $\bot$        |
|            | 43       | -             |               | L            | $\perp$ |         |              | $\Box$   | Ш         | Ľ        |        | 93       | $\perp$  |                    | $\perp$      | $\perp$ | Ш        | $\perp$   |   | 1 1  |       | 143        |          | 1      | <u> </u> | Щ            | Ш               | _                 | $\bot$        |
|            | 44       | 1             | Щ.            | T            | $\perp$ | 1       | 1            | Ы        | Ш         | L        |        | 94       |          | $\perp$            | $\perp$      | $\perp$ | Ц        | 4   | 4   | 1 1  |       | 144        | $\dashv$ | ┺      | ↓_       | Щ            | Ш               | _                 | -             |
| Ш          | 45       | 4             |               | L            | 1       | 1       | $\perp$      | Ш        | Щ         | L        |        | 95       | _        | $\perp$            | $\bot$       | $\perp$ | Ц        | _   | 4   |      |       | 145        | -        | 1      | ₩        | Щ            | Ш               | 4                 |               |
| L          | 46       | 1             | _             | Ļ            | $\perp$ | ┸       | ┖            | Ы        | Ш         | L        |        | 96       | 4        | $\perp$            | 4            | 4       | Ш        | 4   | _   | 1 1  |       | 146        |          | $\bot$ | ↓_       | Ш            | Н               | 4                 | +             |
| $\square$  | 47       | ✓             | _             | $\perp$      | 4       | 4       | 1_           | Ш        | Щ         | L        |        | 97       |          | $\perp$            | _ _          | 4       | Ш        | 4   | _   |      |       | 147        | 4        | 4      | <u> </u> | Ш            | $\sqcup$        | 4                 | +             |
| $\vdash$   | 48       | Ш             | _ _           | +            | 4       | 4       | 4            | Ш        | Щ         | <u> </u> |        | 98       | 4        | $\perp$            | 4            | 4_      | $\sqcup$ | +   | +   |      |       | 148        |          | +      | ⊢        | $\vdash$     | $\vdash \vdash$ | 4                 | +             |
|            | 49       | Щ             | +             | +            | +       | +       | $\vdash$     | Н        | $\square$ | $\vdash$ |        | 99       | 4        | +                  | +            | +       | $\vdash$ | 4   | _   |      |       | 149        | $\vdash$ | +      | ₩        | H            | $\vdash \vdash$ | $\dashv$          | +             |
|            | 50       |               |               | 1            | 1       | 1       | 1            | L        |           | :: L     | - 11   | 00       |          | - 1                | - 1          | 1       | ıl       | - 1   | 1   | 1000 |       | 150        |          |        | 1        | ı            | ıl              |                   | L             |